

Name: _____

WWP #10 Painting the Barn

Teacher: _____

Algebra Pd: _____

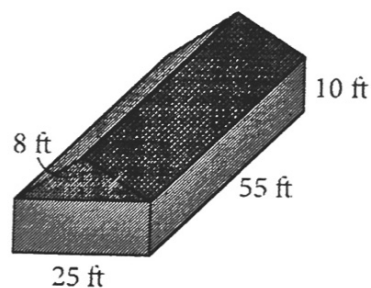
Day

Month

Year

The Situation: The exterior walls of a barn are to be painted. The barn is in the shape of a rectangular prism with an isosceles triangular prism for a roof. You need to find the total area to be painted.

1. Sketch the walls that are to be painted.



2. Find the total area of the rectangular prism parts of the walls.

3. Find the area of the triangular parts of the wall.

4. Find the total area to be painted.

5. You must purchase the paint needed to complete the job. The paint is sold in 1 gallon cans. A gallon of paint will cover an area of 400 ft.^2 How many gallons of paint are needed?

6. The paint costs \$32.50 per gallon. What will be the total cost to paint the barn?